

WHAT IS CLAIMED IS:

- 1 1. A portable electronic device, comprising:
2 a housing;
3 computing electronics supported by the housing, including a
4 processor, a display controller coupled to the processor and memory
5 coupled to the processor;
6 an expandable display coupled to the display controller, the
7 expandable display is expandable from a first size to a second size, the
8 first size being different than the second size; and
9 a sensor coupled to the processor, the sensor configured to
10 provide a signal representative of the size of the display.
- 1 2. The portable electronic device of claim 1, wherein the
2 computing electronics run a program to interpret the signal and to
3 reformat information on the display, to fill the display screen.
- 1 3. The portable electronic device of claim 2, wherein the
2 reformat includes displaying more information on the display.
- 1 4. The portable electronic device of claim 2, wherein the
2 reformat includes displaying less information on the display.
- 1 5. The portable electronic device of claim 2, wherein the
2 reformat includes displaying the same amount of information at a different
3 resolution.
- 1 6. The portable electronic device of claim 1, wherein the
2 expandable display includes a foldable display.
- 1 7. The portable electronic device of claim 1, wherein the
2 expandable display includes a rollable display.

1 8. The portable electronic device of claim 7, wherein the
2 housing includes an aperture wherein a user may view information
3 through the aperture on a portion of the rollable display within the housing

4 9. The portable electronic device of claim 1, wherein the sensor
5 includes a hinge sensor.

1 10. The portable electronic device of claim 1, wherein the sensor
2 includes an electrotexile sensor.

1 11. The portable electronic device of claim 1, wherein the sensor
2 includes a magnetic sensor.

1 12. The portable electronic device of claim 1, wherein the sensor
2 includes an electrical sensor.

1 13. The portable electronic device of claim 1, wherein the sensor
2 includes an optical sensor.

1 14. A method of providing information to a user of an electronic
2 device, comprising:

3 providing a first amount of user information on a display in a
4 first size configuration;

5 resizing the display to a second size configuration;

6 sensing, automatically, the second size configuration of the
7 display; and

8 reformatting the displayed image according to the second
9 size configuration.

1 15. The method of claim 14 wherein the reformatting includes
2 displaying a second amount of user information on the display in the
3 second configuration.

1 16. The method of claim 15 wherein the second amount of user
2 information is more than the first amount of user information.

1 17. The method of claim 15 wherein the first amount of user
2 information is the same as the second amount of user information, and
3 the second amount of user information is displayed at a different
4 resolution.

1 18. A display for an electronic device, comprising:
2 a first display surface, the first display surface being visible
3 in a first configuration;
4 a second display surface, the second display surface being
5 larger than the first display surface, the second display surface being
6 visible in a second configuration; and
7 a sensor configured to provide a configuration signal
8 representative of the display being in one of the first configuration and the
9 second configuration.

1 19. The display of claim 18 wherein the first and second display
2 surfaces are part of a foldable display.

1 20. The display of claim 18 wherein the first and second display
2 surfaces are part of a rollable display.

1 21. The display of claim 18 wherein the sensor includes a hinge
2 sensor.

1 22. The display of claim 18 wherein the sensor includes an
2 electrotexile sensor.

1 23. The display of claim 18 wherein the sensor includes a
2 magnetic sensor.

1 24. The display of claim 18 wherein the sensor includes an
2 electrical sensor.

1 25. The display of claim 18 wherein the sensor includes an
2 optical sensor.

1 26. A portable electronic device configured to provide
2 information to a user of the portable electronic device, comprising:
3 a means for providing a first amount of user information on a
4 display in a first size configuration;
5 a means for resizing the display to a second size
6 configuration;
7 a means for sensing, automatically, the second size
8 configuration of the display; and
9 a means for reformatting the displayed image according to
10 the second size configuration.

1 27. The portable electronic device of claim 26 wherein the
2 means for reformatting includes a means displaying a second amount of
3 user information on the display in the second configuration.

1 28. The portable electronic device of claim 27 wherein the
2 second amount of user information is more than the first amount of user
3 information.

1 29. The portable electronic device of claim 27 wherein the first
2 amount of user information is the same as the second amount of user
3 information, and the second amount of user information is displayed at a
4 different resolution.